

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

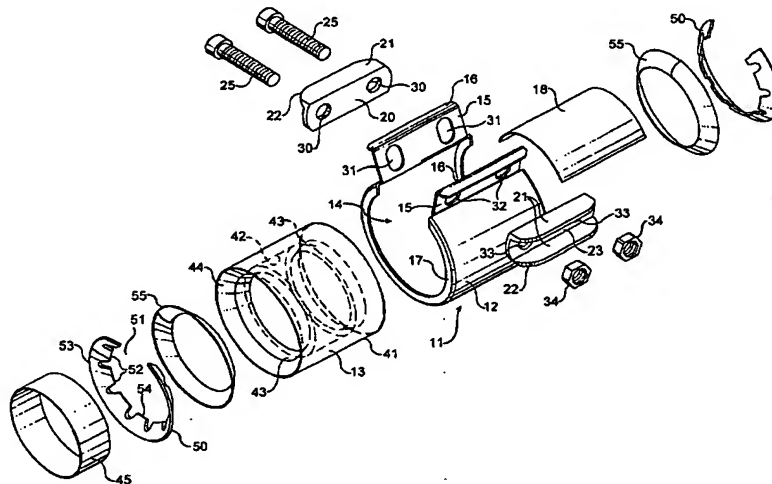
(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number
WO 03/104706 A1

- (51) International Patent Classification⁷: **F16L 21/06**
- (21) International Application Number: **PCT/GB03/02492**
- (22) International Filing Date: **9 June 2003 (09.06.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0213114.2 **7 June 2002 (07.06.2002)** **GB**
- (71) Applicant (for all designated States except US): **TAYLOR KERR (COUPLINGS) LIMITED** [GB/GB]; Disraeli House, 12 Aylesbury End, Old Beaconsfield, Buckinghamshire HP9 1LW (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **WEBB, Ian, Richard** [GB/GB]; 57 The Uplands, Gerrards Cross, Buckinghamshire SL9 7JQ (GB). **TAYLOR, Neil, John, Thornton** [GB/GB]; 44 Pheasants Way, Rickmansworth, Hertfordshire WD3 2HA (GB).
- (74) Agent: **BRERETON, Paul, Arthur**; Reddie & Grose, 16 Theobalds Road, London WC1X 8PL (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PIPE COUPLING COMPRISING A DIVIDED SLEEVE



(57) **Abstract:** A pipe coupling (11) comprises a tubular casing (12) and a sealing gasket (13), which fit over the ends of the pipes to be coupled. The casing (12) is formed from a strip of rolled steel into a cylindrical shape, with a longitudinal gap (14). The free ends of the strip, which forms the casing, are bent outwardly to form radially projecting flange (15) along opposite edges of the longitudinal gap (14). The outer ends of the flanges (15) are bent back at right angles to form stiffening flanges (16) along the longitudinal outer edges of the flanges (15). A bridging member (18) fits inside the casing so as to span the longitudinal gap. Tensioning screw bolts (25) pass through reinforcing plate's (20) and the flange (15). A hexagonal nut (34) is threaded onto the end of each screw bolt. The nuts fit into the channel but are prevented from turning. The heads (35) of the bolts have a hexagonal recess to take an Allen key so that they can be tightened to clamp the coupling around the pipe ends.